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(54) Title: A METHOD FOR UPLINK POWER CONTROL FOR DISTRIBUTED SATELLITE NETWORKS TO COMPENSATE FOR RAIN FADE

## (57) Abstract

A method for dynamically determining the power compression point of an amplifier in a distributed network under the control of a computer, the network having a first terminal (600) including the amplifier operatively coupled to a plurality of second terminals (500) by a communication channel including the steps for generating bit error rate (BER) messages indicative of measured BER for a signal transmitted at N power levels, the BER messages including respective tags indicative of the N power levels for that BER, at the second terminals (500), and reducing the maximum allowed power of the amplifier when it is determined that the amplifier is approaching saturation responsive to the BER messages. Also described is a method for dynamic uplink power control for an amplifier in a distributed network.

